## Office Memorandum • UNITED STATES GOVERNMENT

Chief, External Projects Section

DATE: 1 February 1960

ATTN: FROM:

Chief, R&D Laboratory

SUBJECT:

Antenna, Description for Nomenclature Assignment

1. A top-loaded vertical antenna system was recently fabri-This antenna was tentatively designated the ANIH-4E. A complete description of the antenna appears in subsequent paragraphs.

25X1

25X1

The antenna consists of the following major assembly groups:

> (a) Top and Mast Assembly. Consists of a top hat assembly, a loading coil and the mast. The top hat consists of six radials 3/8" in diameter and 192" long. The loading coil is 142" long and wound on a fiber glass cylinder 3" in diameter. The mast consists of 5 sections of aluminum tubing step tapered from 7/8" diameter to 21" diameter and 10'4" long. The sections are threaded for assembly and to telescope into the fiber glass cylinder when collapsed.

E03 \_\_\_\_ DDV BAYS 6 50586 DV 6/6/15 COM BEAT 033 CH 56 TYPE 02 Dimensions: ONIG CLASS S NAME OF THE WAY TO A STATE OF THE STATE OF T

Collapsed: 4" diameter x 29 7/8" long Extended: 42" diameter x 13'64"

Weight: 9 lb. 1 oz.

(b) Guys. Consists of three nylon guys approximately 16 feet long attached to hooks which fit into grooves cut into the top mast section. Three stakes are provided to secure the base ends of the guys.

Weight: 1 lb. 8 oz.

(c) Base Assembly. Consists of a base plate which has a phenolic board top section separated by a fabric phenolic insulator 3" in diameter and 2 3/8" long from an aluminum bottom section. The bottom section provides reeling devices containing eight phosphorbronze ground radials 25 feet in length. Two ounce lead weights are provided to keep the extended radials taut.



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## Dimensions:

4" wide x 2 7/8" high x 11" long Weight (inc. lead weights) 3 lbs. 14 oz.

25X1

(d) Packing Case. An aluminum case, wrapped in fiber glass is to serve as a combination packing case and burial container.

## Dimensions:

 $4\frac{1}{2}$ " x  $7\frac{1}{2}$ " x  $30\frac{1}{2}$ " (approximately) Weight: 7 lbs. (approximately)

(e)	Complete	Packaged Weight:			22	lbs.	(appro	pprox.)	

